ANALYTICAL SUMMARY REPORT

October 09, 2012

MT DEQ-Water Quality PO Box 200901 Helena, MT 59620-0901

Workorder No.: H12090484 Quote ID: H665 - 2011 and 2012 TMDL

Project Name: TOB-HYLT-YAAK-2012

Energy Laboratories Inc Helena MT received the following 9 samples for MT DEQ-Water Quality on 9/27/2012 for analysis.

Sample ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
H12090484-001	U2548-W	09/25/12 15:35 09/27/12	Aqueous	Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Digestion, Total P Water Nitrogen, Total Persulfate Preparation for TSS Phosphorus, Total Solids, Total Suspended
H12090484-002	U2549-W	09/25/12 15:00 09/27/12	Aqueous	Same As Above
H12090484-003	U2293-W	09/24/12 10:30 09/27/12	Aqueous	Same As Above
H12090484-004	U2294-W	09/24/12 16:30 09/27/12	Aqueous	Same As Above
H12090484-005	U2295-W	09/25/12 8:00 09/27/12	Aqueous	Same As Above
H12090484-006	U2296-W	09/25/12 13:00 09/27/12	Aqueous	Same As Above
H12090484-007	U2297-W	09/25/12 15:30 09/27/12	Aqueous	Same As Above
H12090484-008	U2298-W	09/26/12 11:30 09/27/12	Aqueous	Same As Above
H12090484-009	U2299-W	09/26/12 9:00 09/27/12	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Work Order Sample Summary

CLIENT: MT DEQ-Water Quality
Project: TOB-HYLT-YAAK-2012

Lab Order: H12090484 Report Date:

Lab Sample ID	Client Sample ID	Collection Date	Date Received
H12090484-001	U2548-W	9/25/2012 3:35:00 PM	9/27/2012
H12090484-002	U2549-W	9/25/2012 3:00:00 PM	9/27/2012
H12090484-003	U2293-W	9/24/2012 10:30:00 AM	9/27/2012
H12090484-004	U2294-W	9/24/2012 4:30:00 PM	9/27/2012
H12090484-005	U2295-W	9/25/2012 8:00:00 AM	9/27/2012
H12090484-006	U2296-W	9/25/2012 1:00:00 PM	9/27/2012
H12090484-007	U2297-W	9/25/2012 3:30:00 PM	9/27/2012
H12090484-008	U2298-W	9/26/2012 11:30:00 AM	9/27/2012
H12090484-009	U2299-W	9/26/2012 9:00:00 AM	9/27/2012



Client Sample ID U2548-W

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/25/12 15:35

 Lab ID:
 H12090484-001
 DateReceived:
 09/27/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:40 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:29 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:50 / reh
Phosphorus, Total as P	0.051	mg/L		0.003		E365.1	10/03/12 14:44 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/25/12 15:00

 Lab ID:
 H12090484-002
 DateReceived:
 09/27/12

 Client Sample ID
 U2549-W
 Matrix:
 Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:40 / cmm
NUTRIENTS	5	9.2		•		71201010	00/20/12 00:10 / 01:1111
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:32 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:54 / reh
Phosphorus, Total as P	ND	mg/L		0.003		E365.1	10/03/12 14:47 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/24/12 10:30

 Lab ID:
 H12090484-003
 DateReceived:
 09/27/12

 Client Sample ID
 U2293-W
 Matrix:
 Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Suspended TSS @ 105 C	11	mg/L		4		A2540 D	09/28/12 09:41 / cmm
NUTRIENTS Nitrogen, Nitrate+Nitrite as N Nitrogen, Total Phosphorus, Total as P	ND 0.18 0.022	mg/L mg/L mg/L		0.01 0.05 0.003		E353.2 A4500 N-C E365.1	10/02/12 11:33 / reh 10/03/12 13:55 / reh 10/03/12 14:48 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/24/12 16:30

 Lab ID:
 H12090484-004
 DateReceived:
 09/27/12

 Client Sample ID
 U2294-W
 Matrix:
 Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	6	mg/L		4		A2540 D	09/28/12 09:41 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.19	mg/L		0.01		E353.2	10/02/12 11:35 / reh
Nitrogen, Total	0.27	mg/L		0.05		A4500 N-C	10/03/12 13:56 / reh
Phosphorus, Total as P	0.012	mg/L		0.003		E365.1	10/03/12 14:49 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

Client: MT DEQ-Water Quality
Project: TOB-HYLT-YAAK-2012
Lab ID: H12090484-005

DateReceived: 09/27/12

Report Date: 10/09/12

Collection Date: 09/25/12 08:00

Client Sample ID U2295-W

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	8	mg/L		4		A2540 D	09/28/12 09:42 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:36 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:57 / reh
Phosphorus, Total as P	0.046	mg/L		0.003		E365.1	10/03/12 14:50 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/25/12 13:00

 Lab ID:
 H12090484-006
 DateReceived:
 09/27/12

 Client Sample ID
 U2296-W
 Matrix:
 Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:37 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 13:58 / reh
Phosphorus, Total as P	0.055	mg/L		0.003		E365.1	10/03/12 14:51 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Client Sample ID U2297-W

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Water Quality
Project: TOB-HYLT-YAAK-2012
Lab ID: H12090484-007

Report Date: 10/09/12 **Collection Date:** 09/25/12 15:30 **DateReceived:** 09/27/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01		E353.2	10/02/12 11:38 / reh
Nitrogen, Total	0.06	mg/L		0.05		A4500 N-C	10/03/12 14:37 / reh
Phosphorus, Total as P	0.051	mg/L		0.003		E365.1	10/03/12 14:52 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

Prepared by Helena, MT Branch

 Client:
 MT DEQ-Water Quality
 Report Date:
 10/09/12

 Project:
 TOB-HYLT-YAAK-2012
 Collection Date:
 09/26/12 11:30

 Lab ID:
 H12090484-008
 DateReceived:
 09/27/12

 Client Sample ID
 U2298-W
 Matrix:
 Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.02	mg/L		0.01		E353.2	10/02/12 11:39 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 14:40 / reh
Phosphorus, Total as P	0.049	mg/L		0.003		E365.1	10/03/12 14:53 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.



Prepared by Helena, MT Branch

Client: MT DEQ-Water Quality
Project: TOB-HYLT-YAAK-2012
Lab ID: H12090484-009

Collection Date: 09/26/12 09:00 **DateReceived:** 09/27/12

Report Date: 10/09/12

Client Sample ID U2299-W

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Suspended TSS @ 105 C	ND	mg/L		4		A2540 D	09/28/12 09:43 / cmm
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.04	mg/L		0.01		E353.2	10/02/12 11:41 / reh
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	10/03/12 14:42 / reh
Phosphorus, Total as P	0.048	mg/L		0.003		E365.1	10/03/12 14:54 / jaw

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

Prepared by Helena, MT Branch

Client:MT DEQ-Water QualityReport Date:10/09/12Project:TOB-HYLT-YAAK-2012Work Order:H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D									Bat	ch: 18182
Sample ID: MB-18182	Me	thod Blank				Run: ACCU	-124 (14410200	0)_120928	09/28	/12 09:37
Solids, Total Suspended TSS @ 10	05 C	ND	mg/L	2						
Sample ID: LCS-18182	Lat	boratory Con	trol Sample			Run: ACCU	-124 (14410200)_120928	09/28	/12 09:37
Solids, Total Suspended TSS @ 10	05 C	2000	mg/L	10	100	70	130			
Sample ID: H12090484-003ADUP	Sa	mple Duplica	ate			Run: ACCU	-124 (14410200)_120928	09/28	/12 09:41
Solids, Total Suspended TSS @ 10	05 C	12.0	mg/L	10				8.7	5	R

Prepared by Helena, MT Branch

Client:MT DEQ-Water QualityReport Date:10/09/12Project:TOB-HYLT-YAAK-2012Work Order:H12090484

Analyte	Count Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500 N-C						Analyt	ical Rur	n: FIA203-HE	_121003A
Sample ID: ICV	Initial Calibratio	n Verification Sta	andard					10/03	/12 14:30
Nitrogen, Total	1.02	mg/L	0.10	102	90	110			
Sample ID: CCV	Continuing Cali	bration Verification	on Standard					10/03	/12 14:32
Nitrogen, Total	0.484	mg/L	0.10	97	90	110			
Sample ID: ICB	Initial Calibratio	n Blank, Instrum	ent Blank					10/03	/12 14:33
Nitrogen, Total	0.0110	mg/L	0.10		0	0			
Method: A4500 N-C								Bat	ch: 18246
Sample ID: MB-18246	Method Blank				Run: FIA20	3-HE_121003A		10/03	/12 14:34
Nitrogen, Total	ND	mg/L	0.03						
Sample ID: LCS-18246	Laboratory Con	trol Sample			Run: FIA20	3-HE_121003A		10/03	/12 14:36
Nitrogen, Total	22.4	mg/L	0.20	99	90	110			
Sample ID: H12090484-007BMS	Sample Matrix	Spike			Run: FIA20	3-HE_121003A		10/03	/12 14:38
Nitrogen, Total	0.986	mg/L	0.10	93	90	110			
Sample ID: H12090484-007BMSE	Sample Matrix	Spike Duplicate			Run: FIA20	3-HE_121003A		10/03	/12 14:39
Nitrogen, Total	0.989	mg/L	0.10	93	90	110	0.3	20	
Method: A4500 N-C						Analyt	ical Rur	: FIA203-HE	_121003B
Sample ID: ICV	Initial Calibratio	n Verification Sta	andard					10/03	/12 11:22
Nitrogen, Total	1.02	mg/L	0.10	102	90	110			
Sample ID: ICB	Initial Calibratio	n Blank, Instrum	ent Blank					10/03	/12 11:25
Nitrogen, Total	0.00398	mg/L	0.10		0	0			
Sample ID: CCV	Continuing Cali	bration Verification	on Standard					10/03	/12 13:43
Nitrogen, Total	0.456	mg/L	0.10	91	90	110			
Sample ID: CCV	Continuing Cali	bration Verification	on Standard					10/03	/12 14:01
Nitrogen, Total	0.452	mg/L	0.10	90	90	110			
Method: A4500 N-C								Bat	ch: 18246
Sample ID: MB-18246	Method Blank				Run: FIA20	3-HE_121003B		10/03	/12 13:40
Nitrogen, Total	ND	mg/L	0.03						
Sample ID: LCS-18246	Laboratory Con	trol Sample			Run: FIA20	3-HE_121003B		10/03	/12 13:44
Nitrogen, Total	21.2	mg/L	0.20	94	90	110			
Sample ID: H12090484-001BMS	Sample Matrix	Spike			Run: FIA20	3-HE_121003B		10/03	/12 13:51
Nitrogen, Total	0.925	mg/L	0.10	92	90	110			
Sample ID: H12090484-001BMSD	Sample Matrix	Spike Duplicate			Run: FIA20	3-HE_121003B		10/03	/12 13:52
Nitrogen, Total	0.927	mg/L	0.10	93	90	110	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Prepared by Helena, MT Branch

Client: MT DEQ-Water Quality

Project: TOB-HYLT-YAAK-2012

Report Date: 10/09/12

Work Order: H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2							Analy	tical Run	: FIA203-HE	_121002A
Sample ID: ICV	Initia	al Calibration	n Verification	Standard					10/02	/12 10:13
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	103	90	110			
Sample ID: ICB	Initia	al Calibration	n Blank, Instr	ument Blank					10/02	/12 10:18
Nitrogen, Nitrate+Nitrite as N		-0.0137	mg/L	0.010		0	0			
Sample ID: CCV	Con	ntinuing Calil	oration Verific	ation Standard					10/02	/12 11:27
Nitrogen, Nitrate+Nitrite as N		0.483	mg/L	0.010	97	90	110			
Method: E353.2									Batch	n: R83361
Sample ID: LFB	Lab	oratory Forti	fied Blank			Run: FIA203	B-HE_121002A		10/02	/12 10:14
Nitrogen, Nitrate+Nitrite as N		0.956	mg/L	0.010	96	90	110			
Sample ID: MBLK	Met	hod Blank				Run: FIA203	3-HE_121002A		10/02	/12 10:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.002						
Sample ID: H12090484-001CMS	San	nple Matrix S	Spike			Run: FIA203	3-HE_121002A		10/02	/12 11:30
Nitrogen, Nitrate+Nitrite as N		0.961	mg/L	0.010	96	90	110			
Sample ID: H12090484-001CMSI	D San	nple Matrix S	Spike Duplica	te		Run: FIA20	3-HE_121002A		10/02	/12 11:31
Nitrogen, Nitrate+Nitrite as N		0.961	mg/L	0.010	96	90	110	0.0	20	
Sample ID: H12090490-001BMS	San	nple Matrix S	Spike			Run: FIA203	3-HE_121002A		10/02	/12 11:48
Nitrogen, Nitrate+Nitrite as N		0.971	mg/L	0.010	97	90	110			
Sample ID: H12090490-001BMSI	D San	nple Matrix S	Spike Duplica	te		Run: FIA203	3-HE_121002A		10/02	/12 11:49
Nitrogen, Nitrate+Nitrite as N		0.981	mg/L	0.010	98	90	110	1.1	20	

Prepared by Helena, MT Branch

Client:MT DEQ-Water QualityReport Date:10/09/12Project:TOB-HYLT-YAAK-2012Work Order:H12090484

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1							Analy	tical Run	: FIA202-HE_	_121003C
Sample ID: ICV	Initial	Calibration	Nerification Sta	andard					10/03/	/12 14:17
Phosphorus, Total as P		0.233	mg/L	0.010	93	90	110			
Sample ID: ICB	Initial	Calibration	n Blank, Instrum	ent Blank					10/03/	/12 14:22
Phosphorus, Total as P	0	.000670	mg/L	0.010		0	0			
Sample ID: CCV	Conti	inuing Calib	oration Verification	on Standard					10/03/	/12 14:42
Phosphorus, Total as P		0.240	mg/L	0.010	96	90	110			
Method: E365.1									Bat	ch: 18239
Sample ID: LCS-18239	Labo	ratory Cont	rol Sample			Run: FIA20	2-HE_121003C		10/03/	/12 14:18
Phosphorus, Total as P		41.4	mg/L	0.10	99	90	110			
Sample ID: MB-18239	Meth	od Blank				Run: FIA20	2-HE_121003C		10/03/	/12 14:24
Phosphorus, Total as P		ND	mg/L	0.0009						
Sample ID: H12090484-001CMS	Sam	ple Matrix S	Spike			Run: FIA20	2-HE_121003C		10/03/	/12 14:45
Phosphorus, Total as P		0.246	mg/L	0.010	97	90	110			
Sample ID: H12090484-001CMSI	D Samp	ple Matrix S	Spike Duplicate			Run: FIA20	2-HE_121003C		10/03/	/12 14:46
Phosphorus, Total as P		0.250	mg/L	0.010	99	90	110	1.4	20	

Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

MT DEQ-Water Quality

samples received Wj 9/27/12

H12090484

Login completed by:	Wanda Johnson		Date	Received: 9/27/2012
Reviewed by:	BL2000\kwiegand		Red	ceived by: TLL
Reviewed Date:	10/1/2012			Carrier Hand Del name:
Shipping container/cooler in	good condition?	Yes √	No 🗌	Not Present
Custody seals intact on shipp	ping container/cooler?	Yes	No 🗌	Not Present ✓
Custody seals intact on samp	ble bottles?	Yes	No 🗌	Not Present ✓
Chain of custody present?		Yes √	No 🗌	
Chain of custody signed whe	n relinquished and received?	Yes ✓	No 🗌	
Chain of custody agrees with	sample labels?	Yes	No 🔽	
Samples in proper container/	bottle?	Yes ✓	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for	indicated test?	Yes ✓	No 🗌	
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Su	onsidered field parameters	Yes ✓	No 🗌	
Temp Blank received?		Yes 🔽	No 🗌	Not Applicable
Container/Temp Blank tempe	erature:	0.6℃ On Ice		
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted
Water - pH acceptable upon	·	Yes ✓	No 🗌	Not Applicable
Contact and Corrective Action	n Comments:			

No times on sample containers. Client provided temperature blank. No Chlorophyll, Algae or Macroinvertebrate

U2548 -___

Site Visit Form

(One Station per page)

Des 0/25/12 Time 15:37	100-64 PAPO 484-001			
Date: $\frac{9/25/12}{15/35}$ Time: $\frac{15/35}{15/30}$ Person	isolas Location: Wast Fk Hyplife Cr inlet			
	IUC: 10020008 County: Gallatia			
	Lat/Long Verified? By:			
	Other: Datum: NAD27 NAD83 WGS84			
Samples Collected: Sample ID:	Sample Collection Information/Preservation:			
Water	GRAB EWI			
Analysis: TPN, TSS	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (ce) Frozen (None			
Analysis: TP, NO2+NO3	Preserved: HNO ₃ (H ₂ SO ₄) H ₃ PO ₄ HCL (Ce) Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL lce Frozen None			
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL lce Frozen None			
Sediment	SED-1 Preserved: None Other:			
Analysis:				
Benthic Chl-a Visualest 450mg/m Composite at Lab Ash-Free Dry Weight	Sample Method: C=Core H=Hoop T=Template N=Nonc Sample Location: R=Right C=Center L=Left			
Transect: A - B - C - D - E -				
Phytoplankton Chl-a	F - G - H - I - J - K - D1 Filtered: mL D2 Filtered: mL			
Phytoplankton CNP	D1 Filtered: mL D2 Filtered: mL			
Algae	PERI-1-MOD PERI-1 OTHER:			
Macroinvertebrates	MAC-R-500 HESS # of Jars:			
Water Temp: 7./2 (C) °F Air Temp: ~65 °C				
Water Temp: 7.6 © °F Air Temp: ~65 °C © Bar. Pressure: 592.8 mm/Hg SC: -035 uS/cr	Field Forms: Fish Cover Form Photographs			
pH: 7.6 DO: 6.74 mg/L Turbidity: NT				
Turbidity: Clear Slight Turbid Opaque	Channel Cross-Section Total Discharge			
Flow: cfs (Dry Bed No Measurable Flow	Data Loggers: Temp YSI TruTrack DOT			
Meter Doppler Float Gage Visual Est.	AquaRods Weather Station Surveyor			
Comments: Only Transect F Total Site Length m Average Wetted Width m Transect Length m				
73.29000 Lughicute sample to U22970				
Chemistry Lab Information:				
Lab Samples Submitted to: Energy Lab Account #: H7				
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244				
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD Format: MT-eWQX Compatible			
1) Relinquished By & Date/Time: 1) Shipped By:	Deceived By & Date/Time:			
	/UPS \square USPS \square \bigcirc			
2) Relinquished By & Date/Time: 2) Shipped By:	2) Received By & Date/Time: (6:14			
1 // 12 // 1/12	/UPS USPS USPS USPS USPS USPS USPS USPS			
Lab Use Only - Delivery Temperature: Wet Ice O. 6°C Dry Ice				
TO Use only - Derivery Temperature. Wet rect 27, 50 my rec 0				

U2549-__

Site Visit Form

(One Station per page)

	H12090484.00 2					
Date: 9/25/12 Time: 15:00 Person	nel: J. Dunn, M. Johnson					
Date: 9/25/12 Time: 15:00 Person Waterbody: Hyalile Creek Hyos - blue Station ID: Visit #: 3 H	KE Location: West FK Hualile Cu inlet					
Station ID: Visit #: 3 H	UC: 100 2000 B County: Gallatin					
Latitude: 45.4522 Longitude: -1	Lat/Long Verified? By:					
Elevation: 6987 (ft) m Geo Method: 6PS	Other: Datum: NAD27 NAD83 WGS84					
Samples Collected: Sample ID:	Sample Collection Information/Preservation:					
Water 1 U2549 - W	GRAB EWI					
Analysis: TPN , T35	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (Ice) Frozen (One					
Analysis: TD, NO2+NO2	Preserved: HNO ₃ (I ₂ SO ₄ H ₃ PO ₄ HCL (Ice) Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCl. Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Sediment	SED-1					
Analysis:	Preserved: None Other:					
Benthic Chl-a	Sample Method: C-Core H=Hoop T-Template N=None					
Composite at Lab Ash-Free Dry Weight	Sample Location: R=Right C=Center L=Left					
Transect: A _ B _ C _ D _ E	<u>F G H I J K</u>					
Phytoplankton Chl-a Phytoplankton CNP	D1 Filtered: mL D2 Filtered: mL					
Algae	D1 Filtered: mL D2 Filtered: mL PERI-1-MOD PERI-1 OTHER:					
Macroinvertebrates	MAC-R-500 HESS # of Jars:					
Field Measurements: Time: am pm Water Temp: °C °F Air Temp: °C °F	The second secon					
	Tield Forms. Fish Cover Form Thotographs Thotographs					
Bar. Pressure: mm/Hg SC: uS/cm						
pH: DO: mg/L Turbidity: NTU	NRCS Form EMAP Forms Summary Form Channel Cross-Section Total Discharge					
Turbidity: Clear Slight Turbid Opaque						
Flow: cfs (Dry Bed No Measurable Flow)	Data Loggers: Temp YSI TruTrack DOT					
Meter Doppler Float Gage Visual Est. AquaRods Weather Station Surveyor						
Comments: Only Transect F Total Site Length m Average Wetted Width m Transect Length m						
Hield Blank						
Chemistry Lab information:						
Lab Samples Submitted to: Energy Lab Account #: H704 Term Contract Number: n/a						
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Avc / 406-437-9244						
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD Format: MT-eWQX Compatible					
1) Relinquished By & Date/Time: 1) Shipped By:	1) Received By & Date/Time:					
126/12 15:30 Hand FedEx/L	14-17 - 6/27/17					
2) Relinquished By & Date/Time: 2) Shipped By:	2) Received By & Date Fime: 16:10					
Hand N FedEx/U						
ab Use Only - Delivery Temperature: Wet Ice O. C. Dry Ice °C Rev. 508/2012						

Site Visit Form

(One Station per page)

	1412090484-603
Date: 9/24/12 Time: 10:30 Personne	1: J. Dunn, M. Johnson
Waterbody: Hyalide Creek HY01	1: J. Dunn, M. Johnson Location: @confluence with East Gallatin Rive
Station ID: Visit #: 2 HUG	C: 10020008 County: Gallatin
Latitude: 45.79126 Longitude: -11	1 1 2 8 2 2 Lat/Long Verified? ☐ By:
	Other: Datum: NAD27 NAD83 WGS84
Samples Collected: Sample ID:	Sainple Collection Information/Preservation:
Water	GRAB EWI
Analysis: TPN, TSS	Preserved: HNO ₃ H ₂ SO ₄ II ₃ PO ₄ HCL (ce) Frozen (None
Analysis: TP, NO2+NO3	Preserved: HNO ₃ (H ₂ SO ₄) H ₃ PO ₄ HCL (ce) Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ 1I ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Sediment	SED-1
Analysis:	Preserved: None Other:
Benthic Chl-a X 42293-C	Sample Method: C=Core H=Hoop T=Template N=None
Composite at Lab Ash-Free Dry Weight	Sample Location: R=Right C=Center L=Left
	FT-CGT-RH-LJ-CJ-RK-C
Phytoplankton CND	D1 Filtered: mL D2 Filtered: mL
Phytoplankton CNP	D1 Filtered: mL D2 Filtered: mL
	MAC-R-500 HESS # of Jars:
Field Weasurements: Time: 10'.30 mm pm	Field Assessments:
Water Temp: 11-17 © °F Air Temp: 69 °C (F)	Field Forms: Fish Cover Form Photographs
Bar, Pressure: 649.44 mm/Hg SC: 0.395 uS/cm	Aquatic Plant Tracking Form Rosgen Form
pH: 9.35 DO: 11.15 mg/L Turbidity: NTU	NRCS Form EMAP Forms Summary Form Channel Cross-Section Total Discharge
Turbidity: Clear Slight Turbid Opaque O	
Flow: cfs (Dry Bed No Measurable Flow Doppler Float Gage Visual Est,	Data Loggers: Temp YSI TruTrack DOT
	AquaRods Weather Station Surveyor
	Average Wetted Width 25' Ar Transect Length 103' Ar
	2,21.5,18.0 -> 23.2 ~ 25' welled with
Macros + periphyton to 25th non Do = 103.6	To 1000 Transect 100 Spacing
Chemistry Lab Information:	
Lab Samples Submitted to: Energy Lab	Term Contract Number: n/a
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 40	06-437-9244 project: 10002 3347 task 9
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD M Format: MT-eWQX Compatible
1) Relinquished By & Date/Time: 1) Shipped By:	1) Received By & Date/Time:
1/26/12 15:50 Hand FedEx/UP	S USPS USPS USPS USPS
2) Relinquished By & Date/Time: 2) Shipped By:	2) Received By & Date/Pime: 16210
Hand K FedEx/UP	S USPS USPS have eval - 9/2/12
ab Use Only - Delivery Temperature: Wet Ice O. 6 °C Dry Ice	°C Rev. 5/8/2012

Project ID: TOB-HYLT-YAAK-2012

Site Visit Form U2294 --(One Station per page) H12696484-064 Date: 9/24/12 Time: 16:30 Personnel: J. Dunn, M. Johnson
Waterbody: Hyalite Creek Hy02 Location: @ 2nd crossing on Monfarlon School Rd. Visit #: 2 HUC: 10020008 County: Gallatin Station ID: Longitude: - 1 1 1 . 1 7 0 1 9 45.68599 Latitude: Lat/Long Verified? By: m Geo Method: GPS Other:_____ Elevation: Datum: NAD27 NAD83 WGS84 Samples Collected: Sample ID: Sample Collection Information/Preservation: Water X 42294 -W GRAB JEWI Analysis: TPN. TSS Preserved: HNO3 II2SO4 H3PO4 HCL (CE) Frozen None Analysis: TP, NO2+NO3 Preserved: HNO3 (A2SO4) H3PO4 HCL (Ice) Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: HNO₃ II₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: HNO3 H2SO4 H3PO4 HCL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Sediment SED-1 Analysis: Preserved: None Other: N 45584-C Benthic Chl-a Sample Method: C=Core II=Hoop T=Template N=None Composite at Lab Ash-Free Dry Weight Sample Location: R=Right C=Center L=Left Transect: AT-R BT-L CT-C DT-R ET-L FT-C GT-R HT-LI T-C J T-R KT-L Phytoplankton Chl-a mL D2 Filtered: D1 Filtered: mL Phytoplankton CNP D1 Filtered: mL D2 Filtered: mL Algae 42294 - P PERI-I-MOD PERI-1 OTHER: Macroinvertebrates 4 2294 - M MAC-R-500 HESS # of Jars: Field Measurements: Time: 16:30 Field Assessments: am fond Water Temp: \4、て! (°C) °F | Air Temp: ~ 80 °C (°F) Field Forms: Fish Cover Form Photographs Production Bar. Pressure: 628.0 mm/Hg .310 Aquatic Plant Tracking Form Rosgen Form uS/cm pH: **8.98** DO: **9.42** mg/L Turbidity: NTU NRCS Form EMAP Forms Summary Form Channel Cross-Section Total Discharge Turbidity: Clear 🔀 Slight [Turbid Opaque Flow: (Dry Bed No Measurable Flow Data Loggers: Temp YSI TruTrack DOT Meter Doppler -Float Gage Visual Est. AquaRods 🗔 Weather Station Surveyor Comments: Only Transect F Total Site Length 800 an Average Wetted Width 20 m Transect Length 80' and Nether width 18,14,16,122.18=17.6~20' template 12.5cm2 92.0% DO Fsile: 45.68497 Chemistry Lab Information: Lab Samples Submitted to: Energy Lab | Account #: H704 Term Contract Number: n/a Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244 Project: 10002 3347 task 9 Contact Name & Phone: Darrin Kron / 406-444-4765 EDD 🖂 Format: MT-eWQX Compatible Received By & Date/Time: 77/17 1) Relinquished By & Date/Time: 1) Shipped By:

Hand FedEx/UPS

2) Shipped By:

USPS 🗍

USPS 🖂

松气、 196/12 15/30

ab Use Only - Delivery Temperature: Wet Ice O. 6°C Dry Ice of

2) Relinquished By & Date/Time:

2) Roceived By & Date/Time: 16:10

U2295 —___

Site Visit Form

(One Station per page)

Project ID: <u>TOB-HYLT-YAAK-2012</u>

H12090484-005

-11	7-11070
Date: 9/25/17 Time: 8:00 Personnel	: J. Dunn, M. Johnson
Date: 9/25/12 Time: 8:00 Personnel Waterbody: Hyalike Creek MOSHYLTCO3	Location: Yynile above lower NF boundary
Station ID: Visit #: 2 HUC	: 10020008 County: Gallatin
Latitude: 45.56971 Longitude: -11	1. 0.7353 Lat/Long Verified? By:
Elevation: 5522	ther: Datum: NAD27 (NAD83) WGS84
Samples Collected: Sample ID:	Sample Collection Information/Preservation:
Water U2295 - W	GRAB EWI
Analysis: TPN, TSS	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (ce) Frozen None
Analysis: TP, NO2+NO3	Preserved: HNO ₃ (H ₂ SO ₄) H ₃ PO ₄ HCL (ce) Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCl. Ice Frozen None
Sediment	SED-1
Analysis:	Preserved: None Other:
Benthic Chl-a Visual estimate 450mg/m²	
Composite at Lab Ash-Free Dry Weight	Sample Location: R=Right C=Center L=Left
Transect: A - B - C - D - E -	<u>F G H I J K </u>
Phytoplankton Chl-a	D1 Filtered:mL D2 Filtered:mL
Phytoplankton CNP	D1 Filtered:mL D2 Filtered:mL
	PERI-1-MOD PERI-1 OTHER:
	MAC-R-500 HESS # of Jars:
	Field Assessments:
Water Temp: 9.76 © °F Air Temp: ~55 °C (F)	Field Forms: Fish Cover Form Photographs
Bar. Pressure: 673. Zmm/Hg SC: 107 uS/cm	Aquatic Plant Tracking Form Rosgen Form
pH: 8,16 DO: 9.05 mg/L Turbidity: NTU	NRCS Form EMAP Forms Summary Form
Turbidity: Clear 💢 Slight 🗌 Turbid 🗌 Opaque 🗌	Channel Cross-Section Total Discharge
Flow: cfs (Dry Bed No Measurable Flow)	Data Loggers: Temp ☐ YSl ☐ TruTrack ☐ DOT ☐
Meter 🔀 Doppler 🗌 Float 🗌 Gage 🔲 Visual Est. 🔲 📗	AquaRods Weather Station Surveyor
Comments: Only Transect F Total Site Length m	Average Wetted Width of Transect Length of
79.700 Do 110 10 10 10 10 10 10 10 10 10 10 10 10	, ± 7 = 164->76
* 3注e 1 刊5.5 7145 - 1月.07365	
Chemistry Cab Information:	Term Contract Number: n/a
Chemistry Cab Information:	Term Contract Number: n/a
Chemistry Lab Information: Lab Samples Submitted to: Energy Lab	Term Contract Number: n/a
Chemistry Lab Informations Lab Samples Submitted to: Energy Lab Account #: H704 Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 4	Term Contract Number: n/a 06-437-9244 project: \00023347 \ \text{Ask 9} EDD \omega Format: MT-eWQX Compatible 1) Received By & Date/Time:
Chemistry Lab Information: Lab Samples Submitted to: Energy Lab Account #: H704 Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 4 Contact Name & Phone: Darrin Kron / 406-444-4765	Term Contract Number: n/a 06-437-9244 project: \\ \[\text{DD} \subseteq \text{Format: MT-eWQX Compatible} \\ \text{1} \text{Neceived By & Date/Time:} \\ \text{1} \text{1} \text{2} \text{7} \text{12}
Chemistry Lab Information: Lab Samples Submitted to: Energy Lab Account #: H704 Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 4 Contact Name & Phone: Darrin Kron / 406-444-4765 1) Relinquished By & Date/Time: 1) Shipped By: C) Relinquished By & Date/Time: 2) Shipped By:	Term Contract Number: n/a 06-437-9244 project: \00023347 dask 9 EDD \(\times\) Format: MT-eWQX Compatible 1) Received By & Date/Time:
Chemistry Lab Information: Lab Samples Submitted to: Energy Lab	Term Contract Number: n/a 06-437-9244 project: \00023347 \ \text{Ask 9} EDD \overline{\text{Format: MT-eWQX Compatible}} 1) Received By & Date/Time: \(\frac{1}{2} \) 7/7 \(\frac{1}{2} \) 2) Received By & Date/Time: \(\frac{1}{2} \) 16:10

U2296 --___

Site Visit Form

(One Station per page)

	419040484-0016					
Date: 9 25/12 Time: 3:00 Person	iel: J. Dunn, M. Johnson					
Waterbody: Hyalite Creek Hyoloa	Location: just u/s from Hyalite Roservair UC: 10020008 County: Gallatin					
Station ID: Visit #: 3 H	UC: 10020009 County: Gallatin					
Latitude: 4 5 4 6 7 8 Longitude: -1	O 955 Lat/Long Verified? By:					
	Other: Datum: NAD27 (AD83) WGS84					
Samples Collected: Sample ID:	Sample Collection Information/Preservation:					
Water	GRAB) EWI					
Analysis: TPN, TSS	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (ce) Frozen (None)					
Analysis: TP, NO2+NO3	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (ce Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ 1I ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL lce Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCl. Ice Frozen None					
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Icc Frozen None					
Sediment	SED-1					
Analysis:	Preserved: None Other:					
Benthic Chl-a Visual est. 650mg/m2	Sample Method: C=Core H=Hoop T=Template N=None					
Composite at Lab Ash-Free Dry Weight	Sample Location: R=Right C=Center L=Left					
Transect: A B C D E	F G H l J K					
Phytoplankton Chl-a	D1 Filtered:mL D2 Filtered:mL					
Phytoplankton CNP	D1 Filtered:mL D2 Filtered:mL					
Algae 2 42296 - P	PERI-1-MOD PERI-1 OTHER:					
Macroinvertebrates 🛛 U 2296 - M	MAC-R-500 HESS # of Jars:					
Field Measurements: Time: 13:00 am pm						
Water Temp: 7,47 (°C) °F Air Temp: ~65 °C CE	Field Forms: Fish Cover Form Photographs					
Bar. Pressure: 595.9 mm/Hg SC: .058 uS/cm	Aquatic Plant Tracking Form Rosgen Form					
pH: 7.94 DO: 9.46 mg/L Turbidity: NTU	NRCS Form EMAP Forms Summary Form					
Turbidity: Clear Slight Turbid Opaque	Channel Cross-Section Total Discharge					
Flow: cfs (Dry Bed No Measurable Flow)	Data Loggers: Temp YSl TruTrack DOT					
Meter Doppler Float Gage Visual Est.	AquaRods Weather Station Surveyor					
Comments: Only Transect F Total Site Length 800 m Average Wetted Width 20 m Transect Length 80 m						
78.89 Do welled widths! 18,20,23,19,19 = 19.8 >20						
	/					
Chemistry Lab information: 3						
Lab Samples Submitted to: Energy Lab	Ferm Contract Number: n/a					
Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave /	406-437-9244 project: 100023347 taska					
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD Format: MT-eWQX Compatible					
1) Relinquished By & Date/Time: 1) Shipped By:	1) Received By & Date/Time:					
9/26/12 15/30 Hand ☐ FedEx/L	PS USPS USPS USPS 15:30					
2) Relinquished By & Date/Time: 2) Shipped By:	2) Received By & Date/Time: 16:10					
16. 6 Hand FedEx/U	7000					
ab Use Only - Delivery Temperature: Wet Ice O. 6°C Dry Ice °C Rev. 582013						

U2297 -___

Site Visit Form

(One Station per page)

Project ID: TOB-HYLT-YAAK-2012

HQ090484-007

Date: 9 25/12 Time: 15:3	O Personnel	: J. Dunn,	M. Johns	014		
Waterbody: Hyalite Creek	HYOB	Location: 💆	West FK	. Hyalite Cu	inlet	
Station ID: Visit	#: <u>3</u> HUC	1002000	ාප C	ounty: <u>Galla</u>	fib	
Latitude: 45.4522	Longitude: -1	0.955	14	Lat/Long Verifie	ed? 🔲 By:	
Elevation: 6882 ff m Ge						4
Samples Coffected: Sample ID		Sample Collec	tion Informa	ition/Preservath	o n:	
Water X 42297-	-W	GRAB) EWI				<u>.</u>
Analysis: TPN TSS				H₃PO₄ HCL (€		
Analysis: TP, NO2+NO3	Preserved: HNO ₃ (H ₂ SO ₄) H ₃ PO ₄ HCL (ce) Frozen None					
Analysis:			H ₃ PO ₄ HCL I			
Analysis:			H ₃ PO ₄ HCL I			
Analysis:				H ₃ PO ₄ HCL I		
Analysis:				H ₃ PO ₄ HCL lo		
Analysis:				H ₃ PO ₄ HCL Io		
Analysis:		Preserved: IN	NO_3 H_2SO_4	H₃PO₄ HCL I	e Frozen	None
Sediment	SED-1					
Analysis:	Preserved: No	one Other:		<u> </u>		
Benthic Chl-a Visual &				Hoop T-Templ		е
Composite at Lab Ash-Free Dry Weig	···	 ^		C=Center L=Lef		
Transect: A - B - C -	D <u>-</u> E <u>-</u>			<u>i</u> J		
Phytoplankton Chl-a		D1 Filtered:mL D2 Filtered:mL				
Phytoplankton CNP	D1 Filtered:mL D2 Filtered:mL					
		PERI-1-MOD PERI-1 OTHER:				
Macroinvertebrates X Q 2297 -	MAC-R-500 HESS # of Jars:					
Field Measurements: Time: 15		Field Assessme	ents:			8-, j. 9-,
Water Temp: 구, 나니 🌕 °F Air Temp				m 🔲 🏻 Photogra		
Bar. Pressure: 592.6 mm/Hg SC: 0.	, 035 uS/cm	Aquatic Plan	nt Tracking Fo	orm 🔲 _Rosger	n Form 🔲	.
pH: 7.59 DO: 0.65 mg/L Turb	idity: NTU	NRCS Form	EMAF	Forms Su	mmary Form	n []
Turbidity: Clear 🔀 Slight 🗌 Turbid 🛭	Channel Cro	oss-Section _	Total Discha	rge 🔀		
Flow: cfs (Dry Bed No Me	easurable Flow []	Data Loggers:				\Box
Meter Doppler Float Gage Visual Est. AquaRods Weather Station				rveyor 🗌		
Comments: Only Transect F Total Site Length 607 or Average Wetted Width 15' m Transect Length 60' or					<u>) ' m </u>	
Do 20 = 71.5 Wet wich = 11	1,11,16,20,	21 = 16.4	→~151			
Folde: 45.05057 -110.96078						
Chemistry Late Information						
Lab Samples Submitted to: Energy Lab		Term Contra	ct Number: n/a		1	
Invoice Contact: Atkins / Gary Ingman / 820	06-437-9244	project: 1	00023347	task	7	
Contact Name & Phone: Darrin Kron / 406-		EDD 🔯 E	ormat: MT.eWO	X Compatil		
1) Relinquished By & Date/Time: 1	<u></u> -	1) Reco	eived By & Date/	Time:		
Ja Jun 1/26/12/5:30 F	S USPS [<u> </u>	11/2/21	5133		
2) Rélinquished By & Date/Time: 2) Shipped By:		1 3 7/	vived By & Date/	Time:	1422
5 18 16:10 H	land 🔼 🛮 FedEx/UF	S USPS [] / / c	acy in	ist 1	erles
ab Use Only - Delivery Temperature: Wet Ice O-Ce °C Dry Ice °C Rev. 5/8 2012						

U2298 — _

Site Visit Form

Project ID: TOB-HYLT-YAAK-2012

(One Station per page) H12696484-068 Date: 0/26/2 Time: 1:30 Personnel: J. Dunn, M. Johnson Waterbody: Hyalite Creek MOSHYLTCOI Location: 400 yards above trailbead to Hyalite Lake Visit #: 3 HUC: 10020008 County: Gallatin Station ID: Longitude: -1 1 0 9 6 2 1 Lat/Long Verified? By: Latitude: 7077 (ft) m Geo Method: (GPS) Other: _____ Datum: NAD27 NAD83 WGS84 Elevation: Samples Collected: Sample ID: Sample Collection Information/Preservation: GRAB) EWI X 42298 - W Water Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL (ce) Frozen (None TPN , TSS Analysis: Preserved: HNO₃ (H₂SO₄) H₃PO₄ HCL (Ice Frozen None TP, NO2+NO3 Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL fee Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HICL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: Preserved: IINO3 H2SO4 H3PO4 HCL Ice Frozen None Analysis: Preserved: HNO₃ H₂SO₄ H₃PO₄ HCL Ice Frozen None Analysis: SED-1 Sediment Preserved: None Other: Analysis: Sample Method: C=Core H=Hoop T-Template N=None 1 Visuales 450mal Benthic Chl-a Sample Location: R=Right C=Center L=Left Ash-Free Dry Weight Composite at Lab В -Transect: A mL D2 Filtered: D1 Filtered: mL Phytoplankton Chl-a mL D2 Filtered: D1 Filtered: Phytoplankton CNP X 42298-P PERI-1-MOD PERI-1 OTHER: Algae MAC-R-500 HESS # of Jars: Macroinvertebrates 142298-M Field Assessments: Time: 11:30 Field Measurements: and pm Water Temp: 6.03 (C) °F | Air Temp: ~ 55 °C € Field Forms: Fish Cover Form Photographs Bar. Pressure: 59/, mm/Hg SC: .033 Aquatic Plant Tracking Form Rosgen Form uS/cm NRCS Form EMAP Forms Summary Form NTU pH: 7, 45 | DO: 8.94 mg/L | Turbidity: Channel Cross-Section Total Discharge Turbidity: Clear 🔀 Turbid -Opaque 🗍 Slight [Data Loggers: Temp YSI TruTrack DOT No Measurable Flow [] Flow: cfs (Dry Bed AquaRods Weather Station Surveyor Gage [Meter Doppler Float Visual Est. Total Site Length 480 m Average Wetted Width 12 m Transect Length 48 m Comments: Only Transect F welled wide : 8.11.15.11.12 = 11.4 -> 12 71,990 DO -110.96159 FSJE: 45,44280 Chemistry Lab Information: Term Contract Number: n/a Lab Samples Submitted to: Energy Lab Account #: H704 project: 100023347 task9 Invoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 406-437-9244 Format: MT-eWQX Compatible Contact Name & Phone: Darrin Kron / 406-444-4765 1) Received By & Date/Time 1) Relinquished By & Date/Time: 1) Shipped By: | 本元紀2 19 7g | Hand | FedEx/UPS 図 USPS 🗍 2) Relinquished By & Date/Time 2) Received By &/Date/Time: 2) Shipped By: Hand ► FedEx/UPS USPS [Lab Use Only - Delivery Temperature: Wet Ice O. CC Dry Ice

U2299 —___

Site Visit Form

(One Station per page)

	412096484-669				
Date: 9/26/12 Time: 9:00 Personne	1: J.Dunn, M. Johnson				
Waterbody: Hyalite Creek HY09	Location: approx I mile u/s of MOSHYLTCO				
Station ID: Visit #: 3 HU	C: 10020008 County: Gallatia				
Latitude: 4 5 43 25 Longitude: 1 1	<u>○ 9633</u> Lat/Long Verified? ☐ By:				
Elevation: 7248 ft m Geo Method: PS	"				
Samples Collected: Sample ID:	Sample Collection Information/Preservation:				
Water X 42299 - W	GRAB EWI				
Analysis: TPN, TSS	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL (Ice Frozen None				
Analysis: TP, NO2+NO3	Preserved: HNO ₃ H ₂ SÔ ₄ H ₃ PO ₄ HCL (ce) Frozen None				
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL lce Frozen Nonc				
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None				
Analysis:	. Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None				
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None				
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL lce Frozen None				
Analysis:	Preserved: HNO ₃ H ₂ SO ₄ H ₃ PO ₄ HCL Ice Frozen None				
Sediment	SED-1				
Analysis:	Preserved: None Other:				
Benthic Chl-a Visual est 650mg/m²	Sample Method: C=Core H Hoop T=Template N=None				
Composite at Lab Ash-Free Dry Weight	Sample Location: R=Right C=Center L=Left				
Transect: A _ B _ C _ D _ E	<u>F G II I J K</u>				
Phytoplankton Chl-a	D1 Filtered: mL D2 Filtered: mL				
Phytopiankton CNP	D1 Filtered:ml. D2 Filtered:mL				
Algae	RERI-I-MOD PERI-I OTHER:				
	MAC-R-500 HESS # of Jars:				
Field Measurements: Time: 9:00 (an) pm	Field Assessments:				
Water Temp: 5. 680°F Air Temp: ~50°C F	Field Forms: Fish Cover Form Photographs				
Bar. Pressure: 586.2 mm/Hg SC: .031 uS/cm	Aquatic Plant Tracking Form Rosgen Form				
oll: 7.31 DO: 7.53 mg/L Turbidity: NTU	NRCS Form EMAP Forms Summary Form				
Furbidity: Clear Slight Turbid Opaque	Channel Cross-Section Total Discharge				
Flow: cfs (Dry Bed No Measurable Flow)	Data Loggers: Temp YSI TruTrack DOT				
Meter Doppler Float Gage Visual Est.	AquaRods Weather Station Surveyor				
Comments: Only Transect F Total Site Length 600 on Average Wetted Width 15' on Transect Length 60 or					
60.090 Do welled width: 11.5,19,20	0,15,14 < 15.9 → ~15				
FSEC!	,				
hemistry Eab Information:					
ab Samples Submitted to: Energy Lab	Term Contract Number: n/a				
nvoice Contact: Atkins / Gary Ingman / 820 N Montana Ave / 4					
Contact Name & Phone: Darrin Kron / 406-444-4765	EDD ☑ Format: MT-eWQX Compatible				
) Relinquished By & Date/Time: 1) Shipped By:	1), Received By & Date/Time:				
1 5 C - 1/26/12 1090 Hand FedEx/U	(TT AX - 4/27/32)				
) Relinquished By & Date/Time: 2) Shipped By:	2) Received By & Date/Time: 16:14				
Relinquished By & Date/Time: 2) Shipped By: 15:00 Hand FedEx/Ul					
Use Only - Delivery Temperature: Wet Ice O. C. Dry Ice_	°C Rev. 5/8/2013				
7 6					